Amendments to the Claims:

This listing of claims will replace prior versions, and listings of claims in the application.

Claim 1.   **(Currently Amended)**   <u>A method of sending a mobile node address update to a corresponding node, comprising:</u>

<u>multicasting, from a mobile node, a secure router solicitation to one or more access routers, the secure router solicitation including a router solicitation nonce field populated with an identifier of the mobile node;</u>

<u>in response to the secure router solicitation, receiving from an access router a secure router advertisement at the mobile node, the secure router advertisement including a router advertisement nonce field which includes a copy of a value of the router solicitation nonce field, the value of the router solicitation nonce field being the identifier of the mobile node sent in the secure router solicitation;</u>

attaching<u>, at the mobile node, the</u> [[a]] secure router advertisement to an address update <u>to be sent to a correspondent node,</u> ~~associated with a mobile node,~~ wherein the secure router advertisement includes [[a]] <u>the router advertisement</u> nonce field populated with ~~a home address~~ <u>the identifier</u> of the mobile node; and

sending the address update including the attached secure router advertisement to a correspondent node.

Claim 2. (Original) The method of claim 1 wherein the address update includes a Mobile IPv6-compliant binding update.

Claim 3. (Original) The method of claim 1 wherein the address update is sent by a node acting as a representative of the mobile node.

Claim 4-5. (Cancelled)

Claim 6. (Currently Amended) The method of claim 1 wherein the identifier of the mobile node is a home address of the mobile node.

~~wherein the mobile node is associated with a home address and further comprising:~~

~~sending a secure router solicitation to one or more access routers, the secure router solicitation including the home address of the mobile node; and~~

~~receiving the secure router advertisement responsive to the router solicitation, the secure router advertisement including the home address of the mobile node.~~

Claim 7. (Currently Amended) The method of claim 1 wherein the identifier of the mobile node is a public key of the mobile node.

~~further comprising:~~

~~sending a router solicitation to one or more access routers, the secure router~~

~~solicitation including a public key associated with the mobile node; and~~

~~receiving the secure router advertisement responsive to the router solicitation,~~

~~the secure router advertisement including the public key.~~

Claim 8. **(Currently Amended)** The method of claim 1 wherein the secure router advertisement includes a signature of ~~an~~ the access router associated with an access network, wherein the mobile node may receive one or more messages at an address that belongs to the access network of the access router.

Claim 9. **(Original)** The method of claim 1 wherein the secure router advertisement includes a signature of an access router associated with an access network, wherein a representative of the mobile node may receive one or more messages at an address that belongs to the access network of the access router.

Claim 10. **(Original)** The method of claim 1 wherein the mobile node is associated with a cryptographically-generated address generated by a public key and the secure router advertisement includes the same public key.

Claim 11-13. **(Canceled)**

Claim 14. **(Original)** The method of claim 1 wherein the mobile node is associated with a current address within [[an]] the access network and the address update specifies the current address of the mobile node.

Claims 15-46. **(Canceled)**

Claim 47. **(Currently Amended)** A method of receiving an address update at a correspondent node, comprising:

receiving an address update from a mobile node, the address update including a secure router advertisement, a purported identifier of the mobile node, and a purported current address, wherein at least the purported identifier of the mobile node is included in the nonce field of the secure router advertisement, the secure router advertisement been received by the mobile node from an authorized access router;

verifying that the secure router advertisement is signed by an the authorized access router;

verifying that the purported current address is associated with the authorized access router; and

verifying the association between the purported identifier and the purported current address using data from the secure router advertisement.

Claim 48. **(Canceled)**

Claim 49. **(Original)** The method of claim 47 wherein the address update is a Mobile IPv6 binding update.

Claim 50. **(Original)** The method of claim 47 wherein the purported identifier is a Mobile IPv6 home address.

Claim 51. **(Original)** The method of claim 47 wherein the current address is a Mobile IPv6 care-of address.

Claim 52. **(Original)** The method of claim 47 wherein the operation of verifying the association between the purported identifier and the purported current address comprises:

reading an identifier from the secure router advertisement; and

verifying that the purported identifier matches the identifier read from the secure router advertisement.

Claim 53.   (Original)   The method of claim 47 wherein the operation of verifying

the association between the purported identifier and the purported current address

comprises:

reading a home address from the secure router advertisement; and

verifying that the purported identifier matches the home address.

Claim 54.   (Original)   The method of claim 47 wherein the purported identifier is

a cryptographically-generated address associated with the mobile node and the

operation of verifying the association between the purported identifier and the current

address comprises:

reading a public key from the secure router advertisement; and

verifying that the same public key was used to generate cryptographically-

generated address.

Claim 55.   (Original)   The method of claim 47 wherein the authorized access

router is associated with a subnet prefix specified in the secure router advertisement

and the operation of verifying that the purported current address is associated with the

authorized access router comprises:

verifying that the purported current address matches subnet prefix.

Claim 56.   (Original)   The method of claim 47 wherein the operation of verifying

that the secure router advertisement is signed by an authorized access router

comprises:

verifying that a signature used to sign the secure router advertisement is

associated with an access router authorized by certification to advertise a subnet prefix

specified in the secure router advertisement.

Claims 57–86.   (Canceled)

Claim 87.   (New) The method of claim 1 wherein the secure router advertisement is

a signed unicast secure router advertisement.

Claim 88.   (New) The method of claim 1 wherein the secure router advertisement

further includes a subnet prefix of the access router.